

Los Alamos

NATIONAL LABORATORY

memorandum

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Date: April 2, 2001

Subject: Position of JLAB Cryostat Flanges

This memo summarizes the telephone conference call of March 29, 2001 between LANL and JLAB. The attendees were the following:

Nathan Bultman, LANL
Kirk Christensen, LANL
Ed Daly, JLAB
Warren Funk, JLAB
Danny Machie, JLAB
Lucie Parietti, LANL
Bill Schneider, JLAB
Tim Whitlach, JLAB

During this conference call, the position of the JLAB cryostat flanges was discussed. It was agreed that each cryostat flange will be located from its absolute position referenced by global monuments within ± 1 mm in the directions transverse to the beam and ± 6 mm in the beam direction. The angular position of each flange will be maintained within $\pm .25$ degrees of their absolute position (pitch and yaw).

The magnets and beam box located in each Superconducting Linac (SCL) inter-segment will be final aligned with respect to global monuments before the vacuum connections between cryomodules and SCL inter-segments are made. The cryostat flanges have to remain within the envelope described above at all times (both before and after the vacuum connections are made and also during operations).

We are considering a SCL inter-segment beam tube of 2 7/8" outside diameter. The parameter list for the SCL inter-segments specifies an 8-cm diameter quad aperture but does not list the dimensions of the beam tube. The parameter list needs to be checked for the beam tube size in the cryomodules (action item for N. Bultman).

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